

IN THE CLAIMS:

Please cancel claims 1-4, 6-8, 10, 11, 14-16, 22-25, 27, 28 and 31, without prejudice.

1 1. 4. (Cancelled)

1 5. (Currently Amended) A fuel for a direct methanol fuel cell as in claim 4 where
2 comprising:
3 methanol; and
4 an effective amount of an additive that undergoes a reaction with water to produce
5 small molecules that are easily electro oxidized wherein the additive is about 20 mole
6 percent dimethyloxymethane, and less than about .1% by weight of an the-indicating dye
7 that includes sulfonated activated carbon particles.

1 6. 8. (Cancelled)

1 9. (Currently Amended) A fuel for a direct methanol fuel cell as in claim 8 where
2 comprising:
3 methanol;
4 an effective amount of an additive that undergoes a reaction with water to produce
5 small molecules that are easily electro oxidized wherein the additive is methylorthofor-
6 mate in such a proportion that the fuel comprises about 10 mole percent methylorthofor-
7 mate; and
8 less than about .1% by weight of an the-indicating dye that includes sulfonated ac-
9 tivated carbon particles.

1 10. (Cancelled)

1 11. (Cancelled)

1 12. (Currently Amended) A fuel for a direct methanol fuel cell ~~as in claim 11 further~~
2 ~~comprising comprising:~~
3 ~~methanol;~~
4 ~~an effective amount of an additive that undergoes a reaction with water to produce~~
5 ~~small molecules that are easily electro oxidized wherein the additive is tetramethylortho-~~
6 ~~carbonate in such a proportion that the fuel comprises about 10 mole percent tetramethyl-~~
7 ~~ortho-carbonate; and~~
8 less than about .1% by weight of an indicating dye.

1 13. (Original) A fuel for a direct methanol fuel cell as in claim 12 where the indicat-
2 ing dye includes sulfonated activated carbon particles.

1 14.-16. (Cancelled)

1 17. (Currently Amended) A fuel for a direct methanol fuel cell ~~as in claim 16 where~~
2 ~~comprising:~~
3 ~~methanol;~~
4 ~~an effective amount of an additive that undergoes a reaction with water to produce~~
5 ~~small molecules that are easily electro oxidized wherein the additive is trimethylborate in~~
6 ~~such a proportion that the fuel comprises about 7 mole percent trimethylborate; and~~
7 ~~less than about .1% by weight of an the-indicating dye that includes sulfonated~~
8 activated carbon particles.

1 18. (Currently Amended) A fuel for a direct methanol fuel cell ~~as in claim 1 wherein~~
2 ~~comprising:~~
3 ~~methanol; and~~

4 an effective amount of an additive that undergoes a reaction with water to produce
5 small molecules that are easily electro oxidized wherein the additive is tetramethylorthosilicate.
6

1 19. (Original) A fuel for a direct methanol fuel cell as in claim 18, wherein the fuel
2 comprises about 5 mole percent tetramethylorthosilicate.

1 20. (Original) A fuel for a direct methanol fuel cell as in claim 19 further comprising
2 less than about .1% by weight of an indicating dye.

1 21. (Original) A fuel for a direct methanol fuel cell as in claim 20 where the indicating dye includes sulfonated activated carbon particles.

1 22.-31. (Cancelled)

1 32. (Currently Amended) A ~~The~~ method of preparing a fuel mixture for a direct
2 methanol fuel cell as in claim ~~30~~ ~~31~~ further comprising the steps of:
3 providing a supply of concentrated methanol;
4 adding an additive which is a fuel precursor in an effective amount such that said
5 additive undergoes a reaction with water to produce small molecules that are easily elec-
6 tro oxidized selected from the group consisting of: dimethyloxymethane, methylortho-
7 formate, tetramethyl orthocarbonate, trimethyl borate, and tetramethyl orthosilicate; and
8 adding at least one metal hydride selected from the group consisting of LiAlH₄,
9 NaBH₄, LiBH₄, (CH₃)₂NHBH₃, NaAlH₄, B₂H₆, NaCNBH₃, CaH₂, LiH, NaH, KH and

10 sodium bis (2-methoxyethoxy) dihydridaluminate.